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current claims

Listing of Claims:

1-39 (canceled)

- 40. (Previously presented) An isolated nucleic acid molecule comprising a sequence encoding the polypeptide of SEQ ID NO: 14 with aspartic acid, glutamic acid, lysine, or arginine substituted for asparagine-20.
- 41. (Previously presented) The isolated nucleic acid molecule of claim 40 encoding the polypeptide of SEQ ID NO: 14, further comprising serine, alanine, glycine, or threonine substituted for cysteine-98.
- 42. (Previously presented) The isolated nucleic acid molecule of claim 40 encoding the polypeptide of SEQ ID NO: 14, further comprising a substitution at aspartic acid-45.
- 43. (Previously presented) The isolated nucleic acid molecule of claim 42 encoding the polypeptide of SEQ ID NO: 14, further comprising serine, alanine, glycine, or threonine substituted for cysteine-98.
- 44. (Previously presented) The isolated nucleic acid molecule of claim 40 encoding the polypeptide of SEQ ID NO: 14, further comprising glutamic acid or aspartic acid substituted for lysine-157.
- 45. (Previously presented) The isolated nucleic acid molecule of claim 40, encoding substitution of aspartic acid for asparagine-20.
- 46. (Previously presented) The isolated nucleic acid molecule of claim 41, encoding substitution of serine for cysteine-98.

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- 47. (Previously presented) The isolated nucleic acid molecule of claim 42, encoding substitution of asparagine for aspartic acid-45.
- 48. (Previously presented) The isolated nucleic acid molecule of claim 43, encoding substitution of serine for cyteine-98.
- 49. (Previously presented) The isolated nucleic acid molecule of claim 44, encoding substitution of glutamic acid for lysine-157.
- 50. (Previously presented) An isolated nucleic acid molecule comprising a sequence encoding the polypeptide of SEQ ID NO: 14 with asparagine substituted for lysine-16.
 - 51. (Canceled)
- 52. (Previously presented) An isolated nucleic acid molecule comprising a sequence encoding the polypeptide of SEQ ID NO: 14 with serine, alanine, glycine, or threonine substituted for cysteine-87.
- 53. (Previously presented) The isolated nucleic acid molecule of claim 52, encoding substitution of serine for cysteine-87.
- 54. (Previously presented) An isolated nucleic acid molecule comprising a sequence encoding the polypeptide of SEQ ID NO: 14 with serine, alanine, glycine, or threonine substituted for cysteine-90.
- 55. (Previously presented) The isolated nucleic acid molecule of claim 54, encoding substitution of serine for cysteine-90.
 - 56. (Currently amended) A recombinant nucleic acid construct comprising: a polynucleotide comprising the sequence of SEQ ID NO: 12;

a polynucleotide having 99% sequence identity with SEQ ID NO: 12 and encoding a polyneptide having reduced lethality compared to a wild-type SPE-A toxin; or a polynucleotide comprising nucleotides 918-1580 of sequence SEQ ID NO: 12; or

a polynucleotide having 99%-sequence identity with nucleotides 918 1580 of sequence SEQ ID NO: 12 operably linked to a promoter.

- 57. (Previously presented) The recombinant nucleic acid construct of claim 56, comprising a polynucleotide having the sequence of SEQ ID NO: 12.
- 58. (Currently amended) The recombinant nucleic acid construct of claim 56, comprising a polynucleotide having 99% sequence identity with SEQ ID NO: 12 and encoding a polypeptide having reduced lethality compared to a wild-type SPE-A toxin.
- 59. (Previously presented) The recombinant nucleic acid construct of claim 56, comprising a polynucleotide having nucleotides 918-1580 of sequence SEQ ID NO: 12.
- 60. (Canceled) The recombinant nucleic acid construct of claim 56, comprising a polynucleotide having 99% sequence identity with nucleotides 918-1580 of sequence SEQ ID NO: 12.